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Terms	Documents
L3 and (blend\$3 or mix\$4)	34

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L4

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DB=USPT; PLUR=YES; OP=ADJ

<u>L4</u>	L3 and (blend\$3 or mix\$4)	34	<u>L4</u>
<u>L3</u>	L2 and (dilata\$4 or balloon or catheter or stent)	36	<u>L3</u>
<u>L2</u>	L1 and (glass transition temperature)[ab,clm,ti]	806	<u>L2</u>
<u>L1</u>	525/\$10 and \$4urethane	14836	<u>L1</u>

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L4: Entry 10 of 34

File: USPT

Aug 4, 1998

US-PAT-NO: 5789018

DOCUMENT-IDENTIFIER: US 5789018 A

TITLE: Lubricious catheters

DATE-ISSUED: August 4, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Engelson; Erik T.	Menlo Park	CA		
Hergenrother; Robert	Fremont	CA		
Eder; Joseph	Los Alto	CA		

US-CL-CURRENT: 427/2.3; 427/2.28, 427/393.5, 427/430.1, 427/493

ABSTRACT:

This invention is in the general field of surgical instruments. It relates specifically to catheters which may be used in cardiovascular and endovascular procedures to deliver diagnostic, therapeutic, or vaso-occlusive agents to a target site within a human or animal body which is accessible by a system of natural passageways within that body. The catheters are coated in such a way that they are exceptionally slippery and the coating is very durable. The invention also relates to methods of coating the catheters and to methods of applying lubricious coatings by forming a sheet of the coating on the substrate and simultaneously drying and crosslinking through heat and radiation.

28 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

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Terms	Documents
L3 and (blend or mixture)	0

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L6

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DB=DWPI; PLUR=YES; OP=ADJ

<u>L6</u>	L3 and (blend or mixture)	0	<u>L6</u>
<u>L5</u>	L3 and (Shore D hardness)	0	<u>L5</u>
<u>L4</u>	L3 and (glass transition temperature)	0	<u>L4</u>
<u>L3</u>	L2 and (catheter or balloon or dilatation)	1	<u>L3</u>
<u>L2</u>	L1 and \$4urethane	24	<u>L2</u>
<u>L1</u>	wu-s\$.in.	1662	<u>L1</u>

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Terms	Documents
(L9 not L8) AnD ((@pd > 20020923)!)	2

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L10

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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L10</u>	(L9 not L8) AnD ((@pd > 20020923)!)	2	<u>L10</u>
<u>L9</u>	(L7 and (glass transition)[ab,clm,ti]) AnD ((@pd > 20020923)!)	2	<u>L9</u>
<u>L8</u>	(L7 and \$5compliant) AnD ((@pd > 20020923)!)	1	<u>L8</u>
<u>L7</u>	(L6 and glass transition temperature) AnD ((@pd > 20020923)!)	8	<u>L7</u>
<u>L6</u>	(L3 or L4 or L5) AnD ((@pd > 20020923)!)	86	<u>L6</u>
<u>L5</u>	(L2 and (mix\$4 with \$4urethane)) AnD ((@pd > 20020923)!)	38	<u>L5</u>
<u>L4</u>	(L2 and (blend with \$4urethane)) AnD ((@pd > 20020923)!)	36	<u>L4</u>
<u>L3</u>	(L2 and (two with \$4urethane)) AnD ((@pd > 20020923)!)	31	<u>L3</u>
<u>L2</u>	(L1 and \$4urethane) AnD ((@pd > 20020923)!)	873	<u>L2</u>
<u>L1</u>	(balloon and (catheter or angioplasty)) AnD ((@pd > 20020923)!)	3524	<u>L1</u>

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L4: Entry 23 of 34

File: USPT

Mar 19, 1996

US-PAT-NO: 5500180

DOCUMENT-IDENTIFIER: US 5500180 A

TITLE: Method of making a distensible dilatation balloon using a block copolymer

DATE-ISSUED: March 19, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Jere R.	Newburyport	MA		
Jandris; Louis J.	Georgetown	MA		
Barbere; Michael D.	Dunstable	MA		
Murphy; Richard T.	Dracut	MA		

US-CL-CURRENT: 264/532; 604/103.11, 606/194

ABSTRACT:

Balloons and balloon catheters with a superior overall combination of distensibility, elastic stress response and strength. The improved properties of the balloons result from the method or process used to form the balloons, as well as the polymeric materials used in said balloon forming process. Additionally, the enhanced combination of properties of the balloons will not be adversely affected by the novel sterilization process contemplated by this invention. A process for forming a balloon involves providing a parison of a block copolymer, subjecting the parison to at least one axial stretch step and at least one radial expansion step, and heating the expanded parison to a temperature below the melting temperature of the block copolymer.

6 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

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Terms	Documents
L1 and (dila\$6 or catheter or balloon or stent)	8

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<u>L2</u>	L1 and (dila\$6 or catheter or balloon or stent)	8	<u>L2</u>
<u>L1</u>	\$\$urethane and glass transition temperature and (blend\$3 or mix\$3)	216	<u>L1</u>

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